

The following configurations are available:

MARKING CODE: C7006
MARKING CODE: C706A
MARKING CODE: C706C
MARKING CODE: C706S

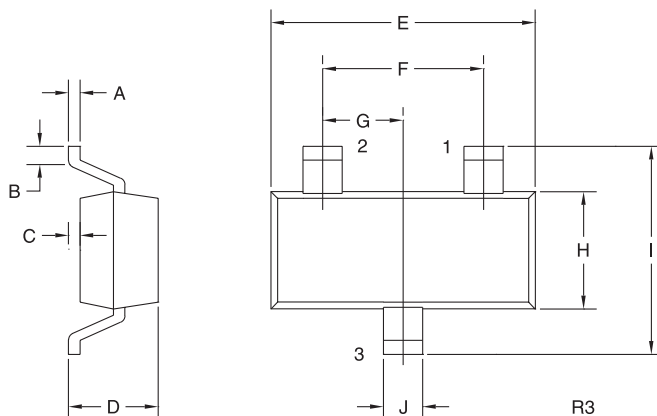
MAXIMUM RATINGS PER DIODE: ($T_A = 25^\circ\text{C}$)	SYMBOL		UNITS
Continuous Reverse Voltage	V_R	600	V
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Continuous Forward Current	I_F	100	mA
Peak Repetitive Forward Current	I_{FRM}	300	mA
Forward Surge Current, $t_p=1.0\ \mu\text{s}$	I_{FSM}	4.0	A
Forward Surge Current, $t_p=1.0\ \text{s}$	I_{FSM}	1.0	A
Power Dissipation	P_D	350	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	θ_{JA}	357	$^\circ\text{C/W}$

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=480V$		7.0	100	nA
I_R	$V_R=480V, T_A=150^{\circ}C$			100	μA
BV_R	$I_R=1.0\mu A$	600	675		V
V_F	$I_F=10mA$		0.88	1.0	V
V_F	$I_F=50mA$		1.04	1.2	V
V_F	$I_F=100mA$		1.16	1.4	V
C_T	$V_R=0V, f=1.0\text{ MHz}$			5.0	pF
t_{rr}	$I_R=I_F=10mA, R_L=100\Omega, \text{Rec. to } 1.0mA$			500	ns

R0 (8-December 2003)

**SURFACE MOUNT
VERY HIGH VOLTAGE
SILICON SWITCHING DIODE**

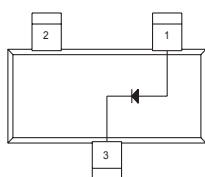
SOT-23 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075	-	1.90	-
G	0.037	-	0.95	-
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

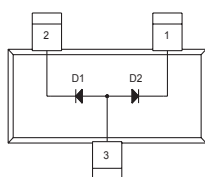
SOT-23 (REV: R3)

**MARKING CODE:
SEE PREVIOUS PAGE**



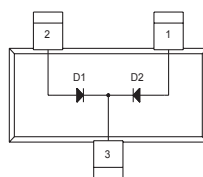
**LEAD CODE:
CMPD7006**

- 1) Anode
- 2) No Connection
- 3) Cathode



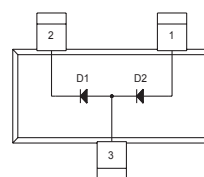
**LEAD CODE:
CMPD7006A**

- 1) Cathode D2
- 2) Cathode D1
- 3) Anode D1, Anode D2



**LEAD CODE:
CMPD7006C**

- 1) Anode D2
- 2) Anode D1
- 3) Cathode D1, Cathode D2



**LEAD CODE:
CMPD7006S**

- 1) Anode D2
- 2) Cathode D1
- 3) Anode D1, Cathode D2